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(54) Title: MULTI-FUNCTIONAL SMALL MOLECULES AS ANTI-PROLIFERATIVE AGENTS

(57) Abstract: The present invention relates to the compositions, methods, and applications of a novel approach to selective inhibition of several cellular or molecular targets with a single small molecule. More specifically, the present invention relates to multi-functional small molecules wherein one functionality is capable of inhibiting histone deacetylases (HDAC) and the other functionality is capable of inhibiting a different cellular or molecular pathway involved in aberrant cell proliferation, differentiation or survival.